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NOTICE OF ALLOWANCE AND FEE(S) DUE

25944

7590

04/16/2009

OLIFF & BERRIDGE, PLC P.O. BOX 320850 ALEXANDRIA, VA 22320-4850 EXAMINER

FUJITA, KATRINA R

ART UNIT PAPER NUMBER

2624 DATE MAILED: 04/16/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/775,242	02/11/2004	Toshiya Koyama	118652	9908

TITLE OF INVENTION: DOCUMENT PROCESSING APPARATUS

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	07/16/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

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appropriate. All further indicated unless correct maintenance fee notificated appropriate.	ted below or directed oth	ng the Patent, advance onerwise in Block 1, by (rders and notification and specifying a new co	of maintenance fees rrespondence addres	will be s; and/o	mailed to the current r (b) indicating a sepa	correspondence address as arate "FEE ADDRESS" for
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)				Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.			
OLIFF & BER P.O. BOX 3208 ALEXANDRIA	*	/2009	,	hereby certify that States Postal Service addressed to the M	this Fee(with sub ail Stop	e of Mailing or Trans s) Transmittal is being fficient postage for fir ISSUE FEE address 1) 273-2885, on the d	g deposited with the United st class mail in an envelope above, or being facsimile
			[(Depositor's name)
							(Signature)
			l				(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENT	OR	ATTC	RNEY DOCKET NO.	CONFIRMATION NO.
10/775,242 TITLE OF INVENTION	02/11/2004 N: DOCUMENT PROCE	SSING APPARATUS	Toshiya Koyama			118652	9908
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE D	JE PREV. PAID ISS	UE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0		\$1810	07/16/2009
EXAM	MINER	ART UNIT	CLASS-SUBCLASS		1		
FUJITA, K	ATRINA R	2624	382-305000				
CFR 1.363). Change of corresp Address form PTO/S "Fee Address" inc PTO/SB/47; Rev 03-t Number is required. 3. ASSIGNEE NAME A PLEASE NOTE: Un	AND RESIDENCE DATA	nge of Correspondence "Indication form led. Use of a Customer A TO BE PRINTED ON ified below, no assignee	(1) the names of up or agents OR, altern (2) the name of a sregistered attorney 2 registered patent listed, no name will THE PATENT (print or data will appear on the	ngle firm (having as or agent) and the na attorneys or agents. be printed.	a memb mes of u f no nan	per a 2p to an is 3	ocument has been filed for
4a. The following fee(s) Issue Fee Publication Fee (1)	riate assignee category or	4) permitted)	b. Payment of Fee(s): (I A check is enclose Payment by credit	Individual Please first reapply d. card. Form PTO-20	Corporat any prev 38 is atta	ion or other private gro	
5. Change in Entity Sta	atus (from status indicated as SMALL ENTITY statu	d above)	overpayment, to D	eposit Account Num	ber		n extra copy of this form).
NOTE: The Issue Fee ar interest as shown by the	nd Publication Fee (if requeecords of the United Sta	uired) will not be accepte tes Patent and Trademark	d from anyone other the Office.	an the applicant; a re	gistered	attorney or agent; or th	ne assignee or other party in
Authorized Signature	,			Date			
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an application. Confiden	ntiality is governed by 35 and application form to the cions for reducing this but Virginia 22313-1450. DC	U.S.C. 122 and 37 CFR	1.14. This collection is	estimated to take 12	2 minute	s to complete, including	by the USPTO to process) gathering, preparing, and me you require to complete artment of Commerce, P.O. for Patents, P.O. Box 1450,

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10/775,242	02/11/2004	Toshiya Koyama	118652	9908	
25944 7.	590 04/16/2009		EXAM	INER	
OLIFF & BERRIDGE, PLC P.O. BOX 320850 ALEXANDRIA, VA 22320-4850			FUJITA, KATRINA R		
			ART UNIT	PAPER NUMBER	
			2624		
			DATE MAILED: 04/16/2009		

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 639 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 639 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

	Application No.	Applicant(s)
	10/775,242	KOYAMA ET AL.
Notice of Allowability	Examiner	Art Unit
	KATRINA FUJITA	2624
The MAILING DATE of this communication appeal claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this or other appropriate communica IGHTS. This application is subje	application. If not included tion will be mailed in due course. THIS
1. This communication is responsive to <u>01/12/2009</u> .		
2. X The allowed claim(s) is/are 1 and 3-9 (renumbered as 1-8)		
 3. Acknowledgment is made of a claim for foreign priority ur a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 		
2. Certified copies of the priority documents have	been received in Application No)
3. ☐ Copies of the certified copies of the priority do	, ,	
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	IENT of this application.	
 A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give 		
5. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.	
(a) \square including changes required by the Notice of Draftspers	son's Patent Drawing Review (P	TO-948) attached
1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	s Amendment / Comment or in th	e Office action of
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t		
 DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT 		
Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	5. ☐ Notice of Inform	al Patent Application
 Notice of Preferences Gled (110-032) Divide of Draftperson's Patent Drawing Review (PTO-948) 	6. ☐ Interview Summ	ary (PTO-413),
3. ☐ Information Disclosure Statements (PTO/SB/08),	Paper No./Mail 7.	Date Indment/Comment
Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit	<u>_</u>	ement of Reasons for Allowance
of Biological Material	9.	
/Katrina Fujita/		
Examiner, Art Unit 2624		

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Art Unit: 2624

DETAILED ACTION

Response to Amendment

This action is responsive to Applicant's amendment and remarks filed on January
 2009. Claims 1 and 3-8 and newly added 9 remain pending.

35 USC § 101

2. The method of claim 8 (renumbered as 7) requires "calculating an angle" for a "given color component space". The claimed calculation is performed by a computer in that only a computer can execute computationally complex processing in a "given color component space" and realize the intended purpose of the invention. A reasonable interpretation of the specification indicates that this step, in addition to the other recited steps, require a programmed computer in order to accomplish the intended purpose of the invention, and there is NO disclosed indication of manual and/or mental activity involved. Therefore, claim 7 is tied to a machine and thus a statutory process.

Allowable Subject Matter

3. Claims 1 and 3-9 (renumbered as 1-8) are allowed.

4. The following is an examiner's statement of reasons for allowance: the prior art of record does not teach a retrieval unit that calculates an angle between a line, in a given color space, connecting a given point, which is defined in connection with color blindness of a human being, and one of the colors of the determined color group and a line, in the given component color space, connecting the given point and each of the other colors of the determined color group as stated in claim 1, combined with other features and elements of the claim; when one attention confusion color locus included in the confusion color locus group passes through insides of some of the nearby confusion areas, the retrieval unit determines color contained in the some of the nearby confusion area as a confusion color set as stated in claim 3 (renumbered as 5), combined with other features and elements of the claim; when one attention confusion color locus included in the confusion color locus group passes through insides of some of the nearby confusion areas, the retrieval unit determines color contained in the some of the nearby confusion area and a color in a proximity of an attention confusion color locus as a confusion color set as stated in claim 4 (renumbered as 6), combined with other features and elements of the claim; the retrieval unit determines some of the colors contained in the determined color group as confusion color set based on block confusion color information associating blocks confused with each other under color blindness of a human being and information indicating the block to which each of the colors contained in the determined color group belongs as stated in claim 5 (renumbered as 7), combined with other features and elements of the claim; calculating an angle between a line, in a given color space, connecting a given point, which is

defined in connection with color blindness of a human being, and one of the colors of the determined color group and a line, in the given component color space, connecting the given point and each of the other colors of the determined color group as stated in claim 8, combined with other features and elements of the claim.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

- 5. US 7,394,468 is made of record, although not prior art and not relied upon, and is considered pertinent to applicant's disclosure as containing information regarding color spaces, confusion lines and transforming image data for easier distinction for color-blind individuals.
- 6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. US 7,145,571 is pertinent as disclosing transforming image data for easier distinction for color-blind individuals.
- 7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to KATRINA FUJITA whose telephone number is

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Art Unit: 2624

(571)270-1574. The examiner can normally be reached on M-Th 8-5:30pm, F 8-4:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Brian Werner can be reached on (571) 272-7401. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Katrina Fujita/ Examiner, Art Unit 2624

/Brian P. Werner/ Supervisory Patent Examiner, Art Unit 2624